

June 22, 2009

WATERCARE CORPORATION
AL WILLEMS
1025 E. ALBERT DRIVE
PO BOX 1717
MANITOWOC WI 54221-1717

Re: Description: WATER TREATMENT DEVICE-OXIDIZING
Manufacturer: WATERCARE CORPORATION
Product Name: MICROCLEAR V (POE)
Model Number(s): UG510 AND UG513 (POE)
Product File No: 20090185

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters Comm 82 through 84, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. This approval is valid until the end of June 2014.

This approval supersedes the approval issued on June 1, 2004 under product file number 20040203.

This approval is contingent upon compliance with the following stipulation(s):

- This product has undergone sufficient testing to document the product's ability to reduce only those contaminants and/or substances as specified in this approval letter when the product is installed and maintained in strict accordance with the manufacturers published instructions.
- Where the Department of Natural Resources (DNR) has jurisdiction, a written approval may be required prior to installation of this product in a water supply system to reduce the concentration of a contaminant that exceeds the primary drinking water standards contained in ch. NR 809, Wis. Admin. Code, the enforcement standards contained in ch. NR 140, Wis. Admin. Code, or for a water supply system that is subject to a written advisory opinion by the DNR. For more information contact the DNR Section of Private Water Systems, P.O. Box 7921, Madison, WI 53707, telephone (608) 266-3415.
- If these approved devices are modified or additional assertions of function or performance are made, then this approval shall be considered null and void, unless the change is submitted to the department for review and the approval is reaffirmed.
- A backflow preventer with intermediate atmospheric vent (ASSE 1012) or a reduced pressure principal backflow preventer (ASSE 1013) must be installed in the water supply serving this product.

Based on testing data submitted to and reviewed by the department, this approval recognizes that these plumbing products will reduce the concentration of contaminants as specified on pages 1 through 2 of this letter.

AESTHETIC CONTAMINANT REDUCTION CAPABILITIES
PRODUCT FILE NUMBER 20090185
TABLE 1 OF 1

Flow Rates: UG510 = 5.0 gallon per minute (gpm)
UG513 = 7.1 gpm

Capacities: UG510 (hydrogen sulfide) = 1,660 gallons (gals.)
UG510 (dissolved iron) = 560 gals.
UG510 (dissolved manganese) = 3,082 gals.

UG513 (hydrogen sulfide) = 2,822 gallons (gals.)
UG513 (dissolved iron) = 952 gals.
UG513 (dissolved manganese) = 5,239 gals.

Tested Contaminant	Influent Challenge (mg/l) ¹
Hydrogen sulfide (H ₂ S)	10.0 ± 10%
Dissolved iron (Fe ⁺²)	10.0 ± 10%
Dissolved manganese (Mn ⁺²)	2.0 ± 10%

Other Conditions: the contaminant reduction performance capabilities displayed for Table 1 of 1 were verified by testing conducted in accordance with WQA Standard S-200. WQA Standard S-200 has since been retired. To qualify, all effluent hydrogen sulfide concentrations must be < 0.2 mg/l, all dissolved iron concentrations must be < 0.2 mg/l and all dissolved manganese concentrations must be < 0.05 mg/l.

1 = milligrams per liter (mg/l) are equivalent to parts per million (ppm)
< = less than
± = plus or minus

This device was tested under controlled laboratory, or field, conditions. The actual performance of this device for a specific end use installation will vary from the tested conditions based on local factors such as water pressure, water temperature and water chemistry.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation that may result from its use.

Sincerely,

Glen W. Schlueter
Engineering Consultant-Plumbing Product Reviewer
Bureau of Integrated Services
Safety and Buildings Division
Department of Commerce
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